

## Abstract

The invention concerns a Coriolis mass flowmeter comprising at least one conduit (9) traversed by the 5 mass, which produces mechanical vibrations under the effect of an excitation unit (8) and acts as an oscillating element, whereof the oscillating behaviour which varies based on the mass flow rate is sensed by at least one sensor (15, 16) to determine the mass 10 flow. The invention aims at determining the degree of wear of the conduit (9). Therefor, the excitation unit (8) applies a single excitation pulse to the conduit (9), whereof the oscillatory response is sensed by the sensor (15; 16). The invention is characterized in that 15 an evaluating unit (10) arranged downstream calculates the initial dampening constant recorded when the conduit (9) was new.